

ISN314 Clinical Neuroscience

Unit Description

Clinical Neuroscience introduces theories of the neural basis of cognition, development and the emergence of behaviour, seizures and epilepsy, neural basis for disorders of mood and anxiety, disorders of thought and volition, autism and other neurodevelopmental disorders, disorders of conscious and unconscious mental processes and repairing the damaged brain. Students will develop an understanding of key methodologies for investigating brain dysfunction, skills in completing research in one of areas of clinical neuroscience such as bionics, stroke, epilepsy, neurogenetics, and develop skills in report writing applied to clinical neuroscience.

Required Textbooks and Readings

Kandel (2013) Principles of Neural Science (5th ed) McGraw Hill Education.

*Textbooks may be subject to change prior to the start of semester

Administrative Details

Associated higher education awards	Duration	Core or Elective	Level	Unit Coordinator	Other Teaching Staff
Bachelor of Psychology	One semester	Elective	Third year, Semester 2	TBA	TBA

Learning Outcomes and Assessments

Learning outcomes for Unit	Assessment tasks		
	Type	When assessed – year, session and week	Weighting (% of total marks for unit)
Introduce the following areas of Clinical Neuroscience: neural basis of cognition, development and the emergence of behavior, seizures and epilepsy, neural basis for disorders of mood and anxiety, disorders of thought and volition, autism and other neurodevelopmental disorders, disorders of conscious and unconscious mental processes and repairing the damaged brain.	Exam [120 item multiple choice test]	Year 3, semester 2, week 14	40%
Develop an understanding of key methodologies for investigating brain dysfunction	Exam – see above		
Develop basic skills in completing research in one of areas of clinical neuroscience such as bionics, stroke, epilepsy, neurogenetics.	Laboratory report [1500 words]	Year 3, semester 2, week 10	40%
Develop basic skills in report writing applied to clinical neuroscience	Laboratory report – see above		

Learning outcomes for Unit	Assessment tasks		
	Type	When assessed – year, session and week	Weighting (% of total marks for unit)
Develop the ability to discuss and understand critical issues in the following areas of clinical neuroscience: neural basis of cognition, development and the emergence of behavior, seizures and Epilepsy, neural basis for disorders of mood and anxiety, disorders of thought and volition, autism and other neurodevelopmental disorders, disorders of conscious and unconscious mental processes and repairing the damaged brain.	Tutorial activities (discussion, debates, presentations, lab activities)	Year 3, throughout semester 2	20%

Delivery mode

Face to face on site with E-learning (online) components;

Full-time or Part-time study

Pre-requisites and co-requisites

Pass grade or higher in all Year 1, 2 and year 3, semester 1 units.

Other Resource and Requirements

Laboratory Facilities available through access agreement with the Florey Institute for Neuroscience and Mental Health

Unit weighting as a percentage of the year

Unit credit points	Total course credit points
12.5	400

Student workload

No. timetabled hours per week	No. personal study hours per week	Total workload hours per week
4 (1x2 hour lecture; 1x1 hour face-face tutorial and 1x1 hour online activities)	6	10

**Unit outlines may be subject to change. The most up-to-date outlines will be provided to students once the semester commences*